

CLAIMS

1. A component of a medicament dispenser having a surface which, in use of the dispenser, contacts a medicinal formulation contained in the dispenser, said surface being presented by a fluorinated polymeric composition having  $CF_3CHFCF_3$  as a monomer thereof.
- 10 2. The component of claim 1 which is a component of a medicinal aerosol dispenser adapted for dispensing a medicinal aerosol formulation.
- 15 3. The component of claim 1 or 2 which is a container with the surface being an interior surface of the container which bounds an inner volume for receiving the medicinal formulation.
- 20 4. The component of claim 3 in which the interior surface consists of all, or substantially all, of the interior surfaces of the container which bound the inner volume.
- 25 5. The component of claim 1 or 2 which is a component of a valve assembly adapted to operate to dispense the formulation from the dispenser.
6. The component of claim 5 wherein the valve assembly is a metering valve which operates to

dispense metered volumes of the medicinal formulation from the dispenser.

7. The component of claim 5 or 6 which is a chamber  
5 of the valve assembly, the surface being an interior surface of the chamber which bounds an inner volume which, in use, stores a volume of the formulation.

8. The component of claim 7 when appended to claim  
10 6, wherein the chamber is a metering chamber, the inner volume operating to dose a metered volume of the formulation.

9. The component of claim 7 or 8, wherein the  
15 interior surface consists of all, or substantially all, of the interior surfaces of the chamber which bound the inner volume.

10. The component of claim 5 or 6 which is an outlet  
20 member of the valve assembly having an internal passageway through which the formulation is dispensed by the valve assembly.

11. The component of claim 10, wherein the surface  
25 is an external surface of the outlet member.

12. The component of claim 10 or 11, wherein the surface bounds the internal passageway.

13. The component of any one of the preceding claims wherein the polymeric composition is formed exclusively, or substantially exclusively, of or from  $\text{CF}_3\text{CHFCF}_3$  monomer.

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14. The component of any one of claims 1 to 12, wherein the polymeric composition is formed by polymerisation of  $\text{CF}_3\text{CHFCF}_3$  with one or more other monomers.

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15. The component of claim 14 in which the other monomer, or at least one of the other monomers, is a fluorinated monomer.

15 16. The component of claim 14 or 15 in which the other monomer, or at least one of the other monomers, is a non-fluorinated monomer.

20 17. The component of claim 16, wherein the non-fluorinated monomer is selected from the group consisting of  $\text{CH}_4$ ,  $\text{C}_2\text{H}_6$ ,  $\text{C}_2\text{H}_4$ ,  $\text{N}_2$ ,  $\text{O}_2$ ,  $\text{H}_2$ ,  $\text{C}_3\text{COO}(\text{C}_6\text{H}_6)\text{COOCH}_3$ ,  $\text{HO}(\text{CH}_2)_2\text{OH}$ ,  $\text{C}_3\text{H}_3\text{N}$  and  $\text{C}_4\text{H}_6$ .

25 18. The component of any one of the preceding claims, wherein the polymeric composition is in the form of a coating deposited on the component surface.

19. The component of claim 18, wherein the coating has a thickness in the range of about 1nm to about 200nm.

5 20. The component of claim 18 or 19, wherein the coating is on a metal, a plastic or a ceramic undersurface of the component.

10 21. The component of claim 20 which is a metal, plastic or ceramic component.

22. The component of any one of claims 1 to 21 in which the polymeric composition is formed by plasma polymerisation.

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23. A medicament dispenser including the component of any one of the preceding claims.

24. The medicament dispenser of claim 23 in the form  
20 of an aerosol dispenser.

25. The medicament dispenser of claim 23 or 24 having the container of claim 3 or 4.

25 26. The medicament dispenser of claim 23, 24 or 25 having a valve assembly comprising at least one of the components of claims 5 to 12.

27. The medicament dispenser of any one of claims 23 to 26 containing a medicinal aerosol formulation which includes HFA-227 as a propellant.

5 28. The medicament dispenser of any one of claims 23 to 27 forming a part of a pressurised, metered dose inhaler (pMDI).

10 29. A valve assembly for a medicament dispenser having at least one of the components of claims 5 to 12.

15 30. A component of a medicament dispenser having a surface which, in use of the dispenser, contacts a medicinal formulation contained in the dispenser, said surface being presented by a fluorinated polymeric composition formed by a polymerisation process using  $CF_3CHFCF_3$  as a monomer.

20 31. The component of claim 30, wherein the polymerisation process is plasma polymerisation.

32. The component of claim 31, wherein the polymerisation process is cold plasma polymerisation.

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33. The component of any one of claim 30 to 32 further having the features of any one of claims 2 to 22.